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Mapping of Gene Expression Reveals CYP27A1 as a Susceptibility Gene for Sporadic ALS

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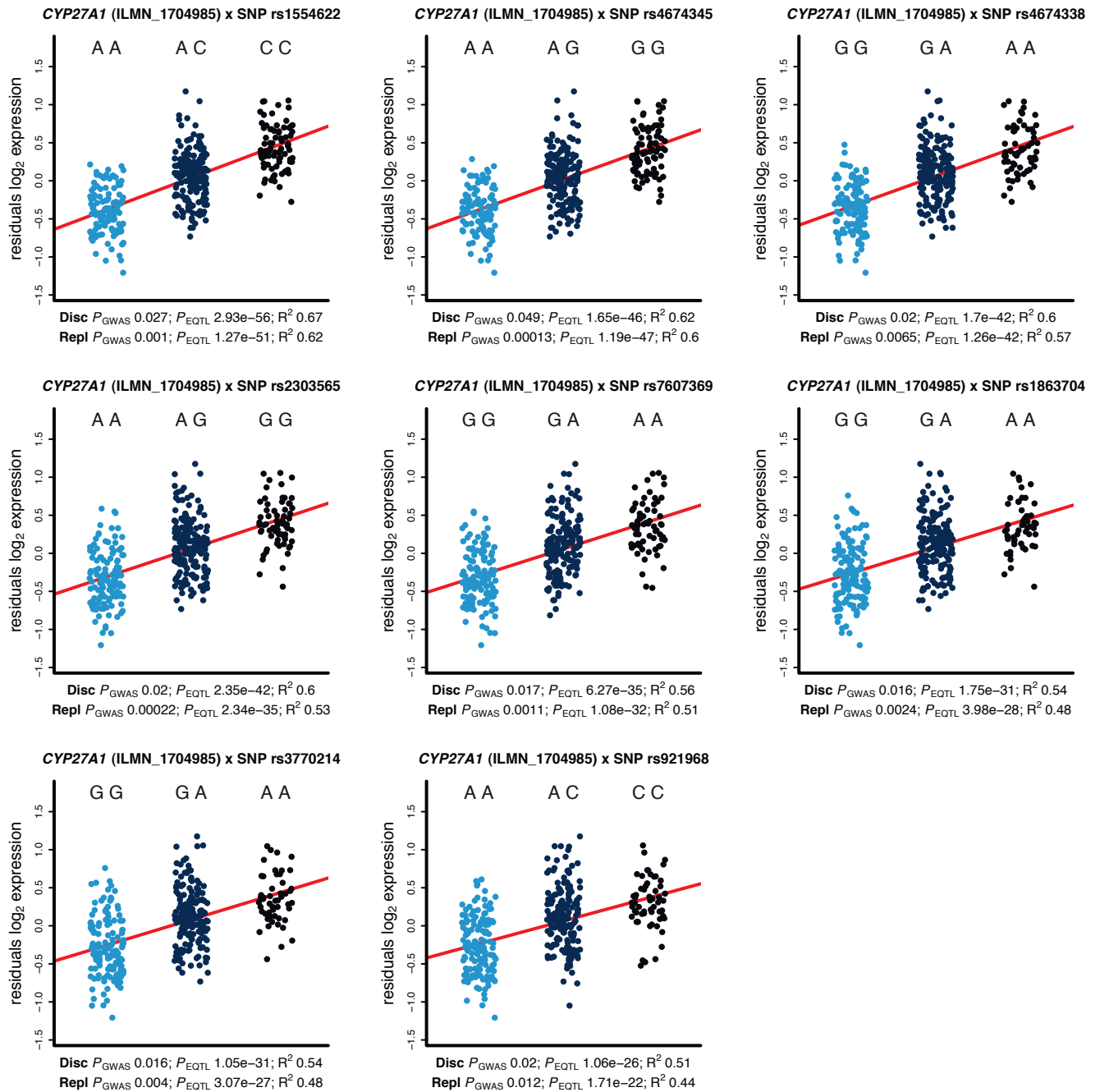
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On the Y-axis, the residuals of log₂ transformed expression levels for probe ILMN_1704985 mapping to *CYP27A1* after regression of covariates in the replication data. On the X-axis SNP genotype bins, according to an additive model; on the left homozygotes for the major allele and homozygotes for the minor allele on the right. A regression line is plotted for each linear model. P values and R² (variance explained) for GWAS and eQTL associations in both discovery and replication cohorts are shown below each plot. Disc, Discovery; Repl, Replication; eQTL, expression quantitative trait locus; GWAS, genome-wide association study.